

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000491

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC(7): C12N 15/63, C12Q 1/68

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): C12N 15/63, C12Q 1/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Canadian Patent Database, Delphion, Pubmed, STN CaPlus (keywords: instability sequence, vector, assay, AREs, CDRs AU-rich, AUUUA, and/or ATTTA)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 39314 A1 (NOVATION PHARMACEUTICALS INC.) 6 July 2000 (06-07-2000) whole document	1-4 and 6-22
X	WO 00 38674 A1 (NOVATION PHARMACEUTICALS INC.) 6 July 2000 (06-07-2000) whole document	1-4, 6-8, 10-16 and 18-21
X	KASTELIC T ET AL: "Induction of rapid IL-1 $\beta$ mRNA degradation in THP-1 cells mediated through the AU-rich region in the 3'UTR by a radicicol analogue", CYTOKINE. October 1996, Vol. 8, No. 10, pages 751-761 see page 758, second paragraph	1-4 and 6-8
X	YIELDING N ET AL: "Coding elements in exons 2 and 3 target c-myc mRNA downregulation during myogenic differentiation", MOLECULAR AND CELLULAR BIOLOGY. May 1997, Vol 17, No. 5, pages 2698-2707 whole document; see especially figure 1	1-8

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

15 July 2005 (15-07-2005)

Date of mailing of the international search report

23 August 2005 (23.08.2005)

Name and mailing address of the ISA/CA  
Canadian Intellectual Property Office  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ROSS J ET AL: "mRNA stability in mammalian cells", MICROBIOLOGICAL REVIEWS. September 1995, Vol. 59, No. 3, pages 423-450 whole document	1-22

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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1.  Claim Nos. :  
because they relate to subject matter not required to be searched by this Authority, namely :
  
2.  Claim Nos. :  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
  
3.  Claim Nos. :  
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest**  The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.  
PCT/CA2005/000491

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO0039314	06-07-2000	AU776604 B2 AU1852200 A CA2356621 A1 EP1141358 A1 GB9828709D D0 JP2002541767T T US2004231007 A1	16-09-2004 31-07-2000 06-07-2000 10-10-2001 17-02-1999 10-12-2002 18-11-2004
WO0038674	06-07-2000	AU779438 B2 AU1852100 A CA2356622 A1 EP1140069 A1 GB9828707D D0 GB9828710D D0 JP2002533389T T US6635671 B1	27-01-2005 31-07-2000 06-07-2000 10-10-2001 17-02-1999 17-02-1999 08-10-2002 21-10-2003